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1 JPEG2000: the new still picture compression standard

C. A. Christopoulos, T. Ebrahimi, A. N. Skodras
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**
Publisher: ACM Press

Full text available: pdf(790.51 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the upcoming JPEG2000 still picture compression standard. JPEG2000 is not only intended to provide rate-distortion and subjective image quality performance superior to existing JPEG standard, but to also provide functionality that the current JPEG standard can either not address efficiently nor address at all. Lossless and lossy compression, encoding of very large images, progressive transmission by pixel accuracy and by resolution, robustness to the pres ...

***Keywords**: JPEG, colour image coding, data compression, source coding, subband coding, wavelet transform*

2 Exploiting Video: Panoramic video capturing and compressed domain virtual camera control

Xinding Sun, Jonathan Foote, Don Kimber, B. S. Manjunath
October 2001 **Proceedings of the ninth ACM international conference on Multimedia MULTIMEDIA '01**
Publisher: ACM Press

Full text available: pdf(1.86 MB) Additional Information: full citation, abstract, references, citings, index terms

A system for capturing panoramic video and a novel method for corresponding compressed domain virtual camera control is presented. It targets applications such as classroom lectures and video conferencing. The proposed method is based on the FlyCam panoramic video system that is designed to produce high resolution and wide-angle video sequences by stitching the video pictures from multiple stationary cameras. The panoramic video sequence is compressed into an MPEG-2 stream for delivery. The prop ...

3 Adaptive foveation of MPEG video

T. H. Reeves, J. A. Robinson

February 1997 **Proceedings of the fourth ACM international conference on Multimedia MULTIMEDIA '96**
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

Keywords: communications/networking/VOD, compression/decompression analysis, foveated coding, logical/conceptual manipulation of video

4 Multiresolution stochastic hybrid shape models with fractal priors
B. C. Vemuri, A. Radisavljevic
April 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(3.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

3D shape modeling has received enormous attention in computer graphics and computer vision over the past decade. Several shape modeling techniques have been proposed in literature, some are local (distributed parameter) while others are global (lumped parameter) in terms of the parameters required to describe the shape. Hybrid models that combine both ends of this parameter spectrum have been in vogue only recently. However, they do not allow a smooth transition between the two extremes of ...

Keywords: Bayesian estimation, deformable surfaces, fractal surfaces, multiresolution representation, orthonormal wavelet basis, stiffness matrix, superquadrics, surface fitting

5 The VolumePro real-time ray-casting system
Hanspeter Pfister, Jan Hardenbergh, Jim Knittel, Hugh Lauer, Larry Seiler
July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques SIGGRAPH '99**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: pdf(2.11 MB) Additional Information: full citation, references, citings, index terms

Keywords: graphics hardware, hardware systems, rendering hardware, rendering systems, volume rendering

6 Color Plates
October 1995 **Proceedings of the 6th conference on Visualization '95 VIS '95**
Publisher: IEEE Computer Society
Full text available: pdf(12.91 MB) Publisher Site Additional Information: full citation

7 Invited talks: Perception-based global illumination, rendering, and animation techniques
Karol Myszkowski
April 2002 **Proceedings of the 18th spring conference on Computer graphics SCCG '02**
Publisher: ACM Press
Additional Information: full citation, abstract, references, citings, index

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Raphael Grosbois, Diego Santa-Cruz, and Touradj Ebrahimi

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Proc. SPIE **4685**, 137 (2002) **Full Text:** [PDF (151 kB)] (12 pages)

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Atsumi, E.; Farvardin, N.;
Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference
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Digital Object Identifier 10.1109/ICIP.1998.723428
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Zhou Wang; Bovik, A.C.;
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Duchowski, A.T.;
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☐ 4. **Lossy to lossless object-based coding of 3-D MRI data**
Menegaz, G.; Thiran, J.-P.;
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Volume 11, Issue 9, Sept. 2002 Page(s):1053 - 1061
Digital Object Identifier 10.1109/TIP.2002.802525
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Tran, T.D.;
Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference
Volume 2, 24-28 Oct. 1999 Page(s):745 - 748 vol.2